

<b>SIX FLAGS NEW ENGLAND</b>	
<b>SUBJECT: FIREWORKS DISPLAY PROCEDURES</b>	<b>SAFETY REFERENCE MANUAL</b>
<b>SECTION: 18</b>	
<b>EFFECTIVE: January 2016</b>	<b>SUPERSEDES: ALL PREVIOUS</b>
<b>29 CFR 1910.109 (k), NFPA 1126</b>	

## **18.1 PURPOSE**

To ensure a safe environment for both associates and guests throughout fireworks displays.

## **18.2 GENERAL PROCEDURE - UNIT**

### **Storage Requirements:**

1. Pyrotechnic materials and devices shall be stored in accordance with the following: Title 27, Code of Federal Regulations, Subpart K; the Bureau of Alcohol, Tobacco, and Firearms Regulations; and any state and local regulations.
2. Any licensee or person who has knowledge of the theft or loss of any pyrotechnic materials shall, within 24 hours of discovery, report the theft by telephoning (800) 424-9555.

Make a daily inspection in fireworks display area, launching areas, and surrounding fall-out zones, including:

- A. Ground conditions (i.e., wet, dry)
  1. Call 3200 to get their survey of conditions
  2. Sprinklers, drafting and wetting, and/or outside agency may be options
- B. Wind conditions (i.e., mph, direction),
  1. If mph exceed 12-15 mph, SIX FLAGS NEW ENGLAND may consider canceling show
- C. In-Transit requirements
  1. All pyrotechnic materials and devices not stored in magazines meeting the requirements of Title 27, Code of Federal Regulations, Subpart K, shall remain in their prescribed U.S. DOT containers until it becomes necessary to set them up for a performance. The time between removals from storage to actual use shall be the shortest time practical with respect to the needs of a performance.
  2. Pyrotechnic materials and devices shall be continually supervised, unless secured or made inaccessible to unauthorized persons.
  3. Maintain a minimum separation distance from any heat source or open flame. The authority with local jurisdiction will define the appropriate distance.
- D. Permits and licensing
  1. The use and/or storage of all pyrotechnics shall be approved and/or permitted by the authority having local jurisdiction.

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- 2. The authority having jurisdiction shall determine that appropriate measures are established to provide acceptable crowd management, security, and fire protection.
- 3. Prior to a production, a plan for the use of pyrotechnics shall be submitted to the authority having jurisdiction.
- 4. All pyrotechnic operators shall be licensed by the authority having jurisdiction in accordance with any and all applicable laws.

E. Ignition sources

- 1. Smoking is not allowed in the vicinity of any pyrotechnics.
- 2. Firing systems shall not be left unattended while connected to loaded pyrotechnic devices unless the firing system can be disconnected from its power source and has a removable activator, key switch, or coded arming system.

F. Personal Protective Equipment

The pyrotechnic operator and assistants shall wear safety glasses and any other recommended protective clothing applicable during preparation and loading of pyrotechnic devices.

G. Inspect and ensure correct placement of all extinguishers.

H. For any indoor pyrotechnics, set and scene material needs to be appropriately flame retarded.

### **18.3 NIGHTLY PROCEDURES**

- A. Re-assess all conditions.
- B. Ensure proper fire extinguishing equipment is functional and immediately available. Extinguishing equipment may include, but is not limited to: Fire truck, tower unit, hoses and nozzles, fire extinguishers, etc.
- C. Advise all fireworks units to switch to frequency 31 throughout the duration of display.
- D. Implement precautions to prevent unauthorized entry, by employees or guests, into the area where the special effects are to occur.
- E. Standby until shooter advises that launching tubes and display deck are clear.

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- F. Call tower unit for a visual report and investigate ANY and ALL findings.
- G. Walk immediate surroundings, paying special attention to areas down wind of launching zone.
- H. While conducting investigation, observe for unspent shells, fall-out in trees, and smoldering debris.
- I. If shell has been located, notify fireworks technician immediately. DO NOT TOUCH.
- J. Upon conclusion of investigation with no apparent hazards found, units may be released at the discretion of the Safety/Maintenance Unit.
- J. Notify Communications that firework operations are complete and units will be switching back to normal operating frequencies.
- K. Refill, re-charge, and replace any equipment that has been used during the fireworks operation.

#### **18.4 NIGHTLY TIME SCHEDULE**

##### **ALL FIREWORKS UNITS SHOULD BE ON FREQUENCY**

###### **SAMPLE DISPLAY SETUP (EXACT TIMES MAY VARY):**

- 9:30 P.M.      Fireworks Company arrives and stages preserve. (Give radio to them and shooter.)
- 9:45 PM.      Unit \_\_\_\_\_ asks if it is "10-4" for fireworks.
- 10:00 P.M.
  - (a) Unit \_\_\_\_\_ turns off lights in park.
  - (b) Fireworks shooter verifies readiness.
  - (c) Unit \_\_\_\_\_ notifies Communications to start tape.
  - (d) Fireworks display begins.
- 10:10
- 10:15 P.M.
  - (a) Fireworks display ends.
  - (b) Shooter turns lights back on at shed.
  - (c) Unit immediately notifies Unit \_\_\_\_\_ that it is '10-4" to turn lights on and notifies Communications that it is "10-4" to stop the tape.

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**SIX FLAGS NEW ENGLAND SUBCONTRACTS MOST FIREWORKS SHOWS.  
FIREWORKS CONTRACTORS WILL FOLLOW PROCEDURE AS SET FORTH IN THIS  
SECTION (18).**

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## APPENDIX A

### PYROTECHNICS CLEARANCE FORM

**Form Instructions:** Complete all sections of this form prior to the firing of any pyrotechnics. Any areas left unchecked must be corrected before pyrotechnics can be fired.

**Location of Display:** \_\_\_\_\_

**Date of Display:** \_\_\_\_\_ **Time of Display:** \_\_\_\_\_

**Weather Conditions:** **Temp. (F)** \_\_\_\_\_ **Wind Speed & Direction** \_\_\_\_\_

**Name of Pyrotechnic Operator:** \_\_\_\_\_

**Name of Pyrotechnic Assistants:** \_\_\_\_\_

**The following must be completed prior to firing pyrotechnics:**

- All permits and licenses are on site.
- The show setup was approved by the authority with local jurisdiction, e.g. Fire Marshal.
- Weather conditions are appropriate for firing pyrotechnics.
- Radios are tuned to proper frequency.
- Licensed pyrotechnicians are in place.
- Fire extinguishing equipment is in place and manned.
- The firing area and fallout areas are clear of combustible debris.
- The firing area is secured and clear of any unauthorized personnel (Employees or guests).

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**Pyrotechnic Operator completes final inspection of devices, including but not limited to, wiring, position, and hookups to insure that all are in good working order.**

**Signature of License Holder:** \_\_\_\_\_